

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently amended) An oil-based suspension concentrate, comprising
- at least one room-temperature-solid active agrochemical substance,
- at least one ~~"closed"~~ closed penetrant,
- at least one vegetable oil or mineral oil,
- at least one nonionic surfactant,
- at least one anionic surfactant, and

optionally one or more additives selected from the group consisting of emulsifiers, foam inhibitors, preservatives, antioxidants, colorants, inert filler materials, and combinations thereof, wherein said penetrant is at least one alkanol alkoxylate of the formula (I)



in which

R is straight-chain or branched alkyl having 4 to 20 carbon atoms,

R' is methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, t-butyl, n-pentyl or n-hexyl,

AO is an ethylene oxide radical, a propylene oxide radical, a butylene oxide radical or mixtures of ethylene oxide and propylene oxide radicals or mixtures of ethylene oxide and butylene oxide radicals, and

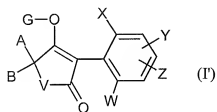
m is 2 to 30.

2. (Previously presented) The suspension concentrate according to Claim 1, wherein said active agrochemical substance is a fungicide, bactericide, insecticide, acaricide, nematocide, molluscicide, herbicide, plant growth regulator, plant nutrient, repellant, or a combination thereof.

3. (Withdrawn) The suspension concentrate according to Claim 1, wherein said active agrochemical substance is imidacloprid, thiacloprid, acetamiprid, nitenpyram, clothianidin, thiamethoxam or dinotefuran, or a combination thereof.

4. (Withdrawn) The suspension concentrate according to Claim 1, wherein said active agrochemical substance is 1H-pyrazole-5-carboxamide,3-bromo-N-[4-cyano-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl) (9CI); 1H-pyrazole-5-carboxamide,N-4-cyano-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl) (9CI); 1H-pyrazole-5-carboxamide,3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl) (9CI) or 1H-pyrazole-5-carboxamide,N-[4-chloro-2-methyl-6-[[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl) (9CI), or a combination thereof.

5. (Previously presented) The suspension concentrate according to Claim 1, wherein said active agrochemical substance is a compound of the formula (I')



in which

V is oxygen or N-D,

X is halogen, alkyl, alkoxy, haloalkyl, haloalkoxy or cyano,

W, Y and Z independently of one another are hydrogen, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy or cyano,

A is hydrogen, in each case optionally halogen-substituted alkyl, alkoxyalkyl, saturated, optionally substituted cycloalkyl, in which optionally at least one ring atom is replaced by a heteroatom,

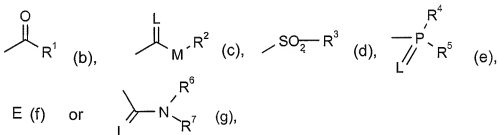
B is hydrogen or alkyl,

A and B together with the carbon atom to which they are attached is a saturated or unsaturated, unsubstituted or substituted ring, optionally including at least one heteroatom,

D is hydrogen or an optionally substituted radical selected from the group consisting of alkyl, alkenyl, alkoxyalkyl, and saturated cycloalkyl, in which optionally one or more ring members are replaced by heteroatoms,

A and D together with the atoms to which they are attached is a saturated or unsaturated ring which optionally includes at least one heteroatom and is unsubstituted or substituted in the A,D moiety,

G is hydrogen (a) or is



in which

E is a metal ion or an ammonium ion,

L is oxygen or sulphur,

M is oxygen or sulphur,

R¹ is in each case optionally halogen-substituted alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, polyalkoxyalkyl or optionally halogen-, alkyl- or alkoxy-substituted cycloalkyl which may be interrupted by at least one heteroatom, or in each case optionally substituted phenyl, phenylalkyl, hetaryl, phenoxyalkyl or hetaryloxyalkyl,

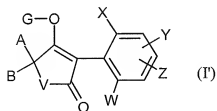
R^2 is in each case optionally halogen-substituted alkyl, alkenyl, alkoxyalkyl, polyalkoxyalkyl or is in each case optionally substituted cycloalkyl, phenyl or benzyl,

R^3 is optionally halogen-substituted alkyl or optionally substituted phenyl,

R^4 and R^5 independently of one another are in each case optionally halogen-substituted alkyl, alkoxy, alkylamino, dialkylamino, alkylthio, alkenylthio, cycloalkylthio or are in each case optionally substituted phenyl, benzyl, phenoxy or phenylthio, and

R^6 and R^7 independently of one another are hydrogen, in each case optionally halogen-substituted alkyl, cycloalkyl, alkenyl, alkoxy, or alkoxyalkyl, or are optionally substituted phenyl, or are optionally substituted benzyl or together with the nitrogen atom to which they are attached is an optionally oxygen- or sulphur-interrupted optionally substituted ring.

6. (Previously presented) The suspension concentrate according to Claim 1, wherein said active agrochemical substance is a compound of formula (I)



in which

V is oxygen or N-D,

W is hydrogen, C₁-C₄-alkyl, C₁-C₄-alkoxy, chlorine, bromine or fluorine,

X is C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₄-haloalkyl, fluorine, chlorine or bromine,

Y and Z are independently of one another hydrogen, C₁-C₄-alkyl, halogen, C₁-C₄-alkoxy or C₁-C₄-haloalkyl,

A is hydrogen or in each case optionally halogen-substituted C₁-C₆-alkyl or C₃-C₈-cycloalkyl,

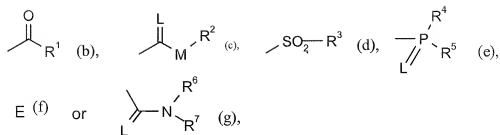
B is hydrogen, methyl or ethyl,

A, B and the carbon atom to which they are attached is saturated C₃-C₆-cycloalkyl, in which optionally a ring member is replaced by oxygen or sulphur, and which is optionally mono- or disubstituted by C₁-C₄-alkyl, trifluoromethyl or C₁-C₄-alkoxy,

D is hydrogen, in each case optionally fluorine- or chlorine-substituted C₁-C₆-alkyl, C₃-C₄-alkenyl or C₃-C₆-cycloalkyl,

A and D are together in each case optionally methyl-substituted C₃-C₄-alkanediyl, in which optionally a methylene group is replaced by sulphur,

G is hydrogen (a) or is



in which

E is a metal ion or an ammonium ion,

L is oxygen or sulphur and

M is oxygen or sulphur,

R¹ is in each case optionally halogen-substituted C₁-C₁₀-alkyl, C₂-C₁₀-alkenyl, C₁-C₄-alkoxy-C₁-C₄-alkyl, C₁-C₄-alkylthio-C₁-C₄-alkyl or optionally fluorine-, chlorine-, C₁-C₄-alkyl- or C₁-C₂-alkoxy-substituted C₃-C₆-cycloalkyl,

is optionally fluorine-, chlorine-, bromine-, cyano-, nitro-, C₁-C₄-alkyl-, C₁-C₄-alkoxy-, trifluoromethyl- or trifluoromethoxy-substituted phenyl,

is in each case optionally chlorine- or methyl-substituted pyridyl or thienyl,

R² is in each case optionally fluorine- or chlorine-substituted C₁-C₁₀-alkyl, C₂-C₁₀-alkenyl, C₁-C₄-alkoxy-C₂-C₄-alkyl, or is optionally methyl- or methoxy-substituted C₅-C₆-cycloalkyl or is in each case optionally fluorine-, chlorine-, bromine-, cyano-, nitro-, C₁-C₄-alkyl-, C₁-C₄-alkoxy-, trifluoromethyl- or trifluoromethoxy-substituted phenyl or benzyl,

R^3 is optionally fluorine-substituted C_1 - C_4 -alkyl or is optionally fluorine-, chlorine-, bromine-, C_1 - C_4 -alkyl-, C_1 - C_4 -alkoxy-, trifluoromethyl-, trifluoromethoxy-, cyano- or nitro-substituted phenyl,

R^4 is in each case optionally fluorine- or chlorine-substituted C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylamino, C_1 - C_4 -alkylthio or is in each case optionally fluorine-, chlorine-, bromine-, nitro-, cyano-, C_1 - C_4 -alkoxy-, trifluoromethoxy-, C_1 - C_4 -alkylthio-, C_1 - C_4 -haloalkylthio-, C_1 - C_4 -alkyl- or trifluoromethyl-substituted phenyl, phenoxy or phenylthio,

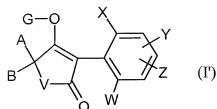
R^5 is C_1 - C_4 -alkoxy or C_1 - C_4 -thioalkyl,

R^6 is C_1 - C_6 -alkyl, C_3 - C_6 -cycloalkyl, C_1 - C_6 -alkoxy, C_3 - C_6 -alkenyl, C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl,

R^7 is C_1 - C_6 -alkyl, C_3 - C_6 -alkenyl or C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl,

R^6 and R^7 together is an optionally methyl- or ethyl-substituted C_3 - C_6 -alkylene radical, in which optionally a carbon atom is replaced by oxygen or sulphur.

7. (Previously presented) The suspension concentrate according to Claim 1, wherein said active agrochemical substance is a compound of formula (I')



in which

V is oxygen or N-D,

W is hydrogen, methyl, ethyl, chlorine, bromine or methoxy,

X is chlorine, bromine, methyl, ethyl, propyl, isopropyl, methoxy, ethoxy or trifluoromethyl,

Y and Z are independently of one another hydrogen, fluorine, chlorine, bromine, methyl, ethyl, propyl, isopropyl, trifluoromethyl or methoxy,

A is methyl, ethyl, propyl, isopropyl, butyl, isobutyl, sec-butyl, tert-butyl, cyclopropyl, cyclopentyl or cyclohexyl,

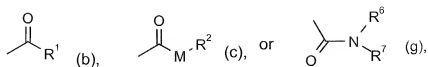
B is hydrogen, methyl or ethyl,

A, B and the carbon atom to which they are attached are is saturated C₆-cycloalkyl, in which optionally a ring member is replaced by oxygen, and which is optionally monosubstituted by methyl, ethyl, trifluoromethyl, methoxy, ethoxy, propoxy or butoxy,

D is hydrogen, is methyl, ethyl, propyl, isopropyl, butyl, isobutyl, allyl, cyclopropyl, cyclopentyl or cyclohexyl,

A and D are together optionally methyl-substituted C₃-C₄-alkanediyl,

G is hydrogen (a) or is



in which

M is oxygen or sulphur,

R¹ is C₁-C₈-alkyl, C₂-C₄-alkenyl, methoxymethyl, ethoxymethyl, methylthiomethyl, ethylthiomethyl, cyclopropyl, cyclopentyl or cyclohexyl,

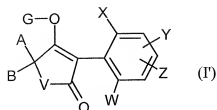
is phenyl, optionally mono- or disubstituted by fluorine, chlorine, bromine, cyano, nitro, methyl, ethyl, methoxy, trifluoromethyl or trifluoromethoxy,

is in each case pyridyl or thienyl, optionally mono- or disubstituted by chlorine or methyl,

R² is C₁-C₈-alkyl, C₂-C₄-alkenyl, methoxyethyl, ethoxyethyl or is phenyl or benzyl,

R⁶ and R⁷ are independently of one another methyl, ethyl or together is a C₅-alkylene radical in which the C₃-methylene group is replaced by oxygen.

8. (Previously presented) The suspension concentrate according to Claim 1, wherein said active agrochemical substance is a compound of formula (I')



in which

V is N-D,

W is hydrogen or methyl,

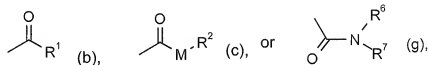
X is chlorine, bromine or methyl,

Y and Z are independently of one another hydrogen, chlorine, bromine or methyl,

A, B and the carbon atom to which they are attached are saturated C₆-cycloalkyl, in which optionally a ring member is replaced by oxygen, and which is optionally monosubstituted by methyl, trifluoromethyl, methoxy, ethoxy, propoxy or butoxy,

D is hydrogen,

G is hydrogen (a) or is



in which

M is oxygen or sulphur,

R¹ is C₁-C₈-alkyl, C₂-C₄-alkenyl, methoxymethyl, ethoxymethyl, methylthiomethyl, ethyl, cyclopropyl, cyclopentyl, cyclohexyl or

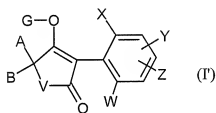
phenyl, optionally monosubstituted by fluorine, chlorine, bromine, methyl, methoxy, trifluoromethyl, trifluoromethoxy, cyano or nitro,

is in each case pyridyl or thienyl, optionally monosubstituted by chlorine or methyl,

R^2 is C_1 - C_8 -alkyl, C_2 - C_4 -alkenyl, methoxyethyl, ethoxyethyl, phenyl or benzyl,

R^6 and R^7 are independently of one another methyl, ethyl or together is a C_5 -alkylene radical, in which the C_3 -methylene group is replaced by oxygen.

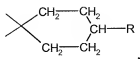
9. (Currently amended) The suspension concentrate according to Claim 1, wherein said active agrochemical substance is a compound ~~compounds~~ of formula (I)



in which

V is N-H,

A and B together with the carbon atom to which they are attached is a substituted six-membered ring

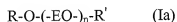


and the substituents W, X, Y, Z, G and R have the definitions indicated in the table:

W	X	Y	Z	R	G
H	Br	5-CH ₃	H	OCH ₃	CO-i-C ₃ H ₇
H	Br	5-CH ₃	H	OCH ₃	CO ₂ -C ₂ H ₅
H	CH ₃	5-CH ₃	H	OCH ₃	H
H	CH ₃	5-CH ₃	H	OCH ₃	CO ₂ -C ₂ H ₅
CH ₃	CH ₃	3-Br	H	OCH ₃	H
CH ₃	CH ₃	3-Cl	H	OCH ₃	H
H	Br	4-CH ₃	5-CH ₃	OCH ₃	CO-i-C ₃ H ₇
H	CH ₃	4-Cl	5-CH ₃	OCH ₃	CO ₂ -C ₂ H ₅
CH ₃	CH ₃	3-CH ₃	4-CH ₃	OCH ₃	H
CH ₃	CH ₃	3-Br	H	OC ₂ H ₅	CO-i-C ₃ H ₇
H	CH ₃	4-CH ₃	5-CH ₃	OC ₂ H ₅	CO-n-C ₃ H ₇
H	CH ₃	4-CH ₃	5-CH ₃	OC ₂ H ₅	CO-i-C ₃ H ₇
H	CH ₃	4-CH ₃	5-CH ₃	OC ₂ H ₅	CO-c-C ₃ H ₅

10. (Cancelled)

11. (Withdrawn) The suspension concentrate according to Claim 1, wherein said penetrant is at least one compound of formula (Ia)



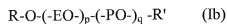
in which

R and R' have the definitions indicated above,

EO is -CH₂-CH₂-O-, and

n is 2 to 20.

12. (Withdrawn) The suspension concentrate according to Claim 1, wherein said penetrant is at least one compound of formula (Ib)



in which

R and R' have the definitions indicated above,

EO is $\text{CH}_2\text{-CH}_2\text{-O-}$,

PO is $\text{—CH}_2\text{—}\underset{\text{CH}_3}{\text{CH}}\text{—O—}$,

p is 1 to 10 and

q is 1 to 10.

13. (Withdrawn) The suspension concentrate according to Claim 1, wherein said penetrant is at least one compound of formula (Ic)

$\text{R-O-}(-\text{PO-})_r(-\text{EO-})_s\text{-R'}$ (Ic)

in which

R and R' have the definitions indicated above,

EO is $\text{CH}_2\text{-CH}_2\text{-O-}$,

PO is $\text{—CH}_2\text{—}\underset{\text{CH}_3}{\text{CH}}\text{—O—}$,

r is 1 to 10, and

s is 1 to 10.

14. (Withdrawn) The suspension concentrate according to Claim 1, wherein said penetrant is a compound of formula (Id)



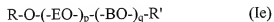
in which

t is 8 to 13

and

u is 6 to 17.

15. (Previously presented) The suspension concentrate according to Claim 1, wherein said penetrant is a compound of formula (Ie)



in which

R and R' have the definitions indicated above,

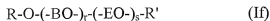
EO is $\text{CH}_2-\text{CH}_2-\text{O}-$,

BO is $\text{—CH}_2-\text{CH}_2-\underset{\text{CH}_3}{\text{CH}}-\text{O—}$,

p is 1 to 10, and

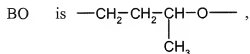
q is 1 to 10.

16. (Withdrawn) The suspension concentrate according to Claim 1, wherein said penetrant is a compound of formula (If)



in which

R and R' have the definitions indicated above,



EO is $\text{CH}_2\text{---CH}_2\text{---O}$ -,

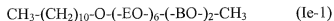
r is 1 to 10, and

s is 1 to 10.

17. (Previously presented) The suspension concentrate according to any of Claims 10, 11, 12, 13, 15 or 16, in which

R is butyl, isobutyl, n-pentyl, isopentyl, neopentyl, n-hexyl, isohexyl, n-octyl, isooctyl, 2-ethylhexyl, nonyl, isononyl, decyl, n-dodecyl, isododecyl, lauryl, myristyl, isotridecyl, trimethylnonyl, palmityl, stearyl or eicosyl.

18. (Withdrawn) The suspension concentrate according to Claim 1, wherein said penetrant is a compound of formula (Ie-1)



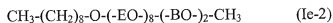
in which

EO is $\text{CH}_2-\text{CH}_2-\text{O}-$,

BO is $-\text{CH}_2-\text{CH}_2-\underset{\text{CH}_3}{\text{CH}}-\text{O}-$ and

the numbers 6 and 2 represent average values.

19. (Previously presented) The suspension concentrate according to Claim 1, wherein said penetrant is a compound of formula (Ie-2)



in which

EO is $\text{CH}_2-\text{CH}_2-\text{O}-$,

BO is $-\text{CH}_2-\text{CH}_2-\underset{\text{CH}_3}{\text{CH}}-\text{O}-$ and

the numbers 8 and 2 represent average values.

20. (Previously presented) The suspension concentrate according to Claim 1, wherein said vegetable oil is sunflower oil, rapeseed oil, olive oil, corn oil, soya-bean oil, or a combination thereof.

21. (Currently amended) The suspension concentrate according to Claim 1, wherein

said active agrochemical substances is between 5% and 30% by weight,

said ~~“closed”~~ closed penetrant is between 5% and 30% by weight,

said vegetable oil or mineral oil is between 20% and 55% by weight,

said surfactants is between 2.5% and 30% by weight, and

said additives is between 0% and 25% by weight.

22. (Currently amended) A process for producing suspension concentrates according to Claim 1, comprising mixing

at least one room-temperature-solid active agrochemical substance,

at least one ~~“closed”~~ closed penetrant,

at least one vegetable oil or mineral oil,

at least one nonionic surfactant, or at least one anionic surfactant, or a combination thereof, and

optionally one or more additives selected from the group consisting of emulsifiers, foam inhibitors, preservatives, antioxidants, colorants, inert filler materials, and a combination thereof,

and optionally grounding the resulting suspension.

23. (Currently amended) A process[[,]] comprising, applying one or more suspension concentrates according to Claim 1 to plants, their habitat, or a combination thereof.

24. (Currently amended) A composition[[,]] comprising, a suspension concentrate according to Claim 1 and one or more extenders, one or more surface-active reagents, or a combination thereof.

25. (Currently amended) A process for controlling insects, comprising contacting one or more suspension concentrates according to Claim 1 with said insects, their habitat, or a combination thereof.¶